ABNORMAL OCCURRENCE REPORT

50-213

Report Number: 50-213/75-3

Report Date: September 5, 1975

Occurrence Date: September 4, 1975

Facility: Haddam Neck Plant
Connecticut Yankee Atomic Power Company

Idnetification of Occurrence: Correspondence CYH-3058; September 5, 1975; Tech. Spec. B, Section 2.3.3.1; Diss. Oxygen

Conditions Prior to Occurrence: Steady State Power

Description of Occurrence:

A greater than 2 delta dissolved oxygen alarm was received across the plants cooling water on 9/4 at 0930. Grab samples were taken and analyses made to verify conditions. It was not immediately apparent what could be causing this condition and sampling indicated we were back in specifications by 1235 on the same day. The grab samples also identified that the continuous monitors were not functioning properly even though they had alarmed. We switched to our back-up system. Attachment A is a record of our continuous monitoring results and grab samples spanning this period.

Designation of Apparent Cause of Occurrence:

Unusual Service Condition Including Environmental

Analysis of Occurrence:

There was no traceable plant event that paralled the time span of this occurrence. However, dredging in the canal upstream of the monitor had started on the same day. It is conceivable and believed that reducing material loosened on the start of the dredging operation scavanged oxygen from the canal water. The dissolved oxygen parameters have remained within acceptable limits since this occurrence.

Corrective Action:

This event is not considered remediable by corrective plant operation.

Failure Data:

See Attachment.

W. G. Counsil
Plant Superintendent

8103060841

		INTAKE		DISCH.		IN-OUT
DATE	TIME	PACKAGE DISS. O	GRAB SAMPLE DISS. O2	PACKAGE DISS. O2	GRAB SAMPLE DISS. O2	Δ DISS O2
9-4-75	0920	4.4		9.0		> +2.0 Package
9-4-75	1030	5.0	8.5	8.8	4.5	- 4.0 Grab
9-4-75	1100	6.4		9.0		> +2.0 Package
9-4-75	1205	6.2	8.7	9.2		
9-4-75	1220	6.3		9.3	6.5	- 2.2 Grab
9-4-75	1235	7.2		9.2	7.6	- 1.1 Grab
9-4-75	1245	7.2		9.15	8.1	- 0.6 Grab
9-4-75	1300	7.2	9.1	9.2		
9-4-75	1315	7.2		9.4		
9-4-75	1400	7.6		9.1	8.4	- 0.7 Grab
9-4-75	1600	8.0		8.8		+ 1.1 Package

CONNECTICUT YANKEE ATOMIC POWER COMPANY
HADDAM NECK PLANT
RR #1, BOX 127E, EAST HAMPTON, CONN. 06424

January 23, 1976
CYH - 3160

50-213

U. S. Nuclear Regulatory Commission
Directorate of Regulatory Operations
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Attention: Mr. James P. O'Reilly,
Director

Dear Mr. O'Reilly:

In accordance with the reporting requirements of Connecticut Yankee Technical Specifications, Section 6.9.2.a, the following preliminary report (75-1/P) concerning the malfunction of two main steam excess flow differential pressure transmitters is hereby submitted.

During severe sub-zero weather conditions, sensing lines to two high steam flow differential pressure transmitters froze. The coincidence of the two high steam flow signals satisfied the tripping logic and a reactor/turbine trip occurred from full power (~ 593 MWe). The instrument sensing lines were thawed and the instrumentation returned to normal.

The instruments in question are housed in an enclosure attached to the outside of the Reactor Containment. Sub-zero temperatures and strong winds coupled with some openings inadvertently left in the wall as a result of a recent (high energy pipe break) modification to the enclosure overcame the enclosure heating system and caused local freezing of the sensing lines.

The enclosure building openings were plugged and additional freeze protection was applied to the sensing lines.

Very truly yours,

R. H. Graves

Richard H. Graves,
Plant Superintendent

RHG/ved

D-12
8103050136

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NAME: VERMONT YANKEE

LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 TYPE: 4 1 1 1 1 CON'T: 0 1

CONT CATEGORY: [ ] REPORT TYPE: P REPORT SOURCE: L DOCKET NUMBER: 0 5 0 - 0 2 7 1 EVENT DATE: 0 1 1 8 7 6 REPORT DA: 0 1 1 9

EVENT DESCRIPTION

During plant startup, both channels of off-gas radiation monitors were discovere
to be reading abnormally low due to purge valve being stuck in the open position
A bypass line restored representative sampling and instrument response. Briefly
during removal of valve and installation of bypass line, both channels of off-ga
system isolation instrumentation were incapable of sensing trip level required

SYSTEM CODE: B B CAUSE CODE: E COMPONENT CODE: V A L V E X PRIME COMPONENT SUPPLIER: N COMPONENT MANUFACTURER: X 9 9 9 VIOLATION: N

CAUSE DESCRIPTION

A 3-way solenoid purge valve associated with the off-gas system was stuck in the
purge position, which resulted in a nonrepresentative sample as seen by the off-
radiation monitors. Failure of solenoid purge valve is under investigation.

FACILITY STATUS: C % POWER: 0 5 7 OTHER STATUS: NA METHOD OF DISCOVERY: A DISCOVERY DESCRIPTION: Abnormally low indication

FORM OF ACTIVITY RELEASED: Z CONTENT OF RELEASE: Z AMOUNT OF ACTIVITY: NA LOCATION OF RELEASE: NA

PERSONNEL EXPOSURES

NUMBER: 0 0 0 TYPE: Z DESCRIPTION: NA

PERSONNEL INJURIES

NUMBER: 0 0 0 DESCRIPTION: NA

OFFSITE CONSEQUENCES

NA

LOSS OR DAMAGE TO FACILITY

TYPE: [ ] DESCRIPTION: NA

PUBLICITY

NA

ADDITIONAL FACTORS

02 Cont - by Tech. Spec. Table 3.2.4. ADS System, with its monitors, was in

[illegible]. (RO 50-271/76-01)

NAME: B.W. Riley PHONE: 802 257-7711

Greg Files